# Legislation Supporting IWRM in Nebraska: Bringing Together Prior Appropriation and Correlative Water Rights

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Jennifer J. Schellpeper Water Planning Division Manager

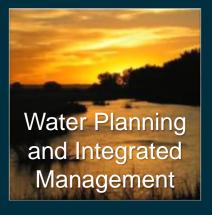


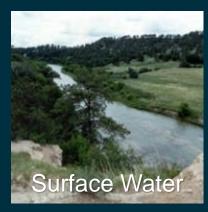
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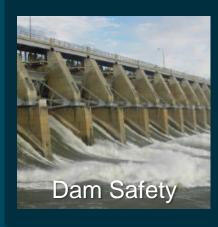
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Nebraska's most precious resource











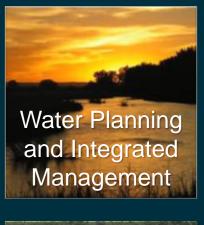


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#### Nebraska IWRM in Action

- ➤ Session 5
  - Innovative Groundwater Recharge Projects
- ➤ Session 7 / PANEL
  - The Role of IWRM in Creation, Governance, Success of the Platte River Recovery Implementation Program
- ➤ Session 11
  - Decision Support Systems and Optimization

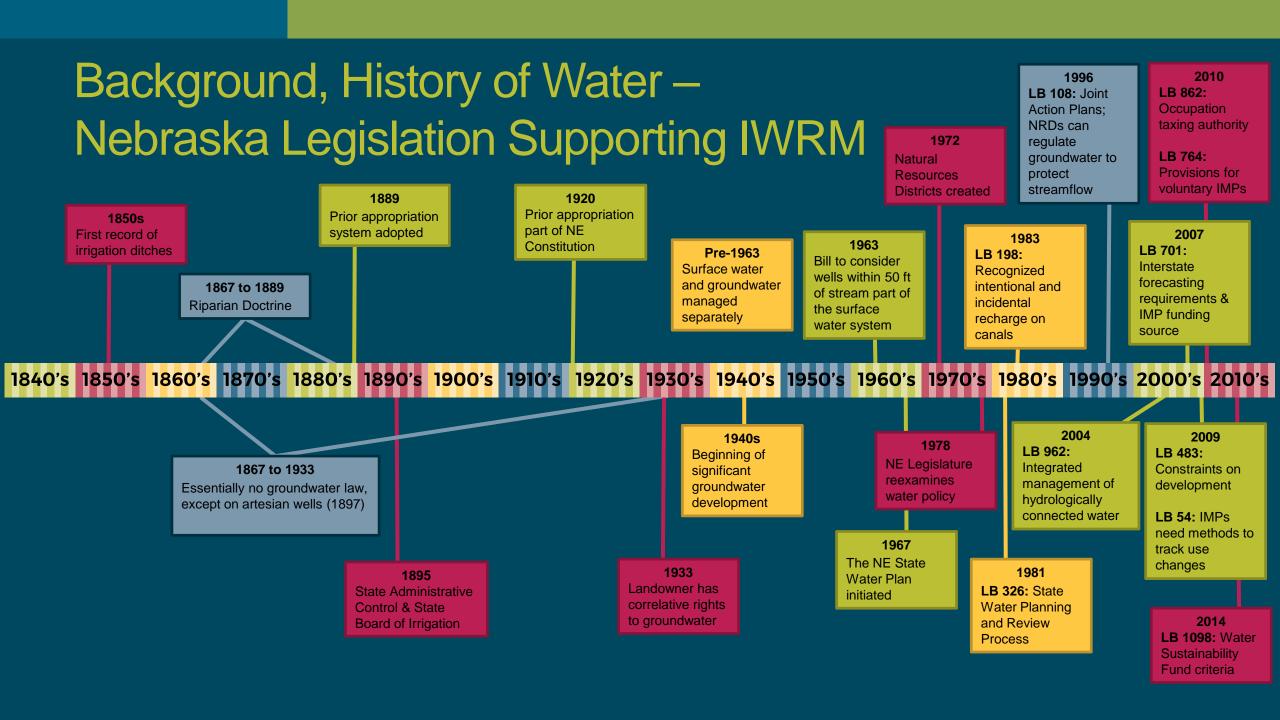
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- ➤ Session 14 / PANEL
  - Funding Solutions to Support IWRM
- ► Session 18
  - Stories of IWRM Transition



#### Overview

- ➤ Background Describing the Challenge
  - Nebraska Water History
- ➤ Keys to Success Legislative Toolbox
  - Clear Boundaries
  - Local Needs
  - Nested Tiers
  - Dispute Resolution
  - Funding
  - Monitoring
  - Stakeholder Participation (Trust and Communication)
- Concluding Thoughts





## Background, History of Water – Nebraska Legislation Supporting SURFACE WATER

1895 1963 Bill to consider State wells within 50 Administrative 1850s ft of stream part Control & State 1867 to 1889 First record of of the surface Board of irrigation Riparian Doctrine **Irrigation** water system ditches 1840's 1850's 1860's 1870's 1880's 1890's 1900's 1910's 1920's 1930's 1940's 1950's 1960's 1970's 1920 1889 Prior Prior appropriation appropriation part of NE system adopted Constitution

## Background, History of Water – Nebraska Legislation Supporting GROUNDWATER

#### 1867 to 1933

Essentially no groundwater law, except on artesian wells (1897)

1963

Bill to consider wells within 50 ft of stream part of the surface water system

1840's 1850's 1860's 1870's 1880's 1890's 1900's 1910's 1920's 1930's 1940's 1950's 1960's 1970's

#### 1933

Landowner has correlative rights to groundwater

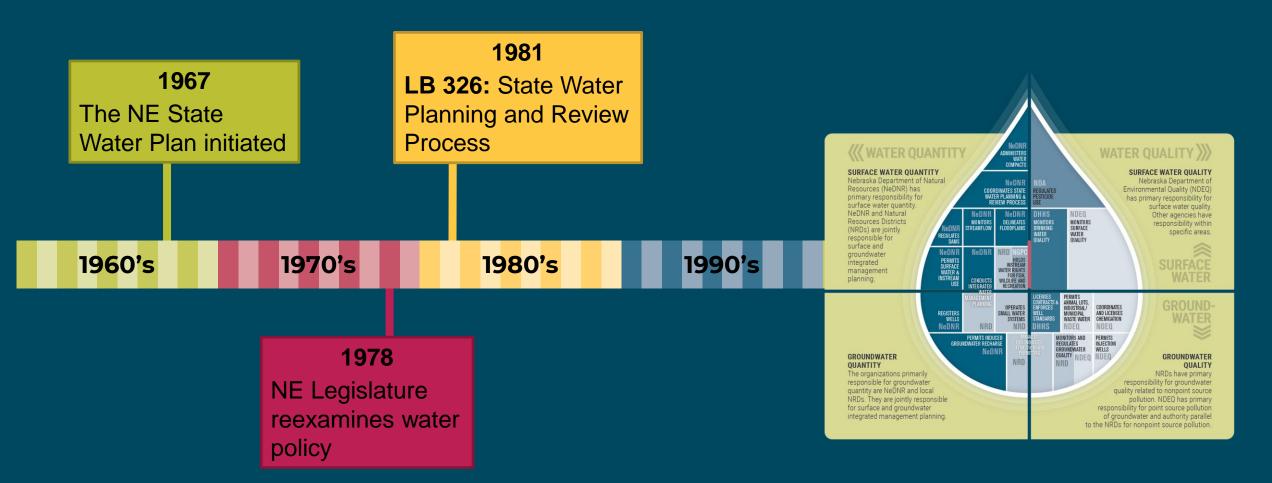
#### 1940s

Beginning of significant groundwater development

#### 1972

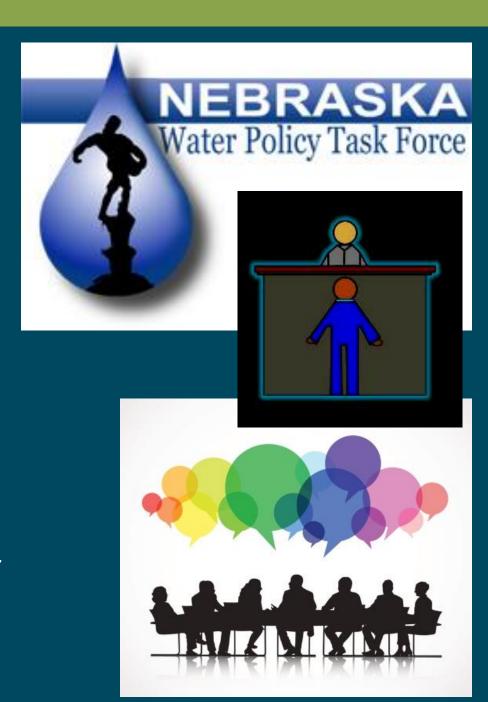
Natural Resources Districts created

## Background, History of Water – Nebraska Legislation Supporting WATER PLANNING

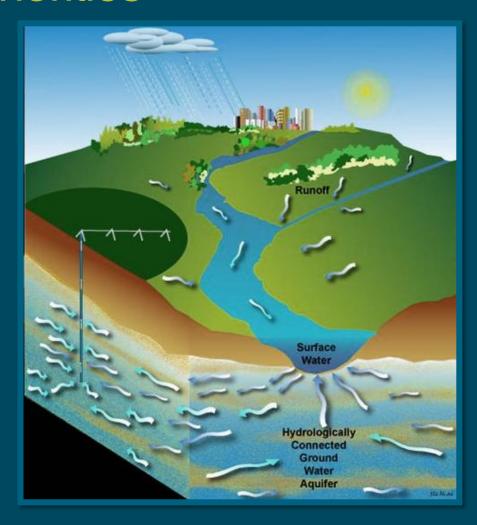


## Background, History of Water – NE Water Policy Task Force

- ➤ Created in 2002 by the Nebraska Legislature
  - Consensus-based decision-making process
  - Evaluate law governing integrated water management
  - Inter- and intra- state lawsuits
- ➤ Developed LB962 (2004)
  - Recognized hydrologic connection of surface and groundwater
  - Established joint planning process (IMPs)
  - Goal to sustain a balance between water use and water supply



## Background – Surface Water and Ground Water Authorities



#### **Surface Water**

- Regulated by NeDNR
- Prior appropriations
- First in time is first in right

Integrated water management

#### **Groundwater**

- Regulated by NRDs
- Correlative rights
- Share and share alike

## Background, History of Water – Nebraska Legislation Supporting IWRM

#### 2007

LB 701: Interstate forecasting requirements & IMP funding source

2010

LB 862: Occupation taxing authority

LB 764: Voluntary IMPs

1960's

1970's

1980's

1990's

2000's

2010's

#### 2004

**LB 962:** Integrated management of hydrologically connected water

#### 2009

LB 54: transparency and economic development - IMPs must contain methods to track water use changes

2014

LB 1098: Water Sustainability Fund

## Keys to Success – Legislative Toolbox

## Elinor Ostrom's Principles for Managing a Commons

- 1. Clear boundaries
- 2. Rules match local needs and conditions
- 3. Affected user participate in rule making
- Local rules respected by outside authorities
- Member system to monitor
- Graduated sanctions for violators
- 7. Accessible dispute resolution
- 8. Nested tiers of governing responsibility
- 9. Effective communication & trust

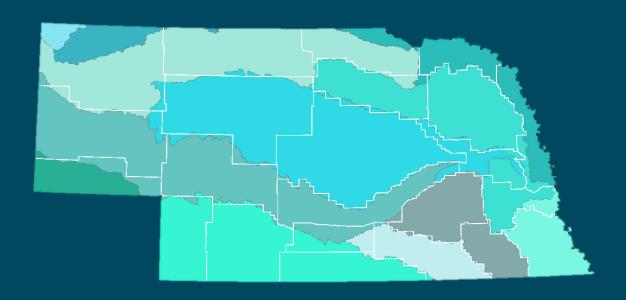
#### Nebraska Water Planning

- ➤ Clear boundaries (1)
- Decentralized water management (2,4)
- ➤ Stakeholders (2,3)
- Monitoring (5)
- ➤ Dispute resolution process (7)
- ➤ Nested tiers (8)
- ➤ Trust and communication (9)

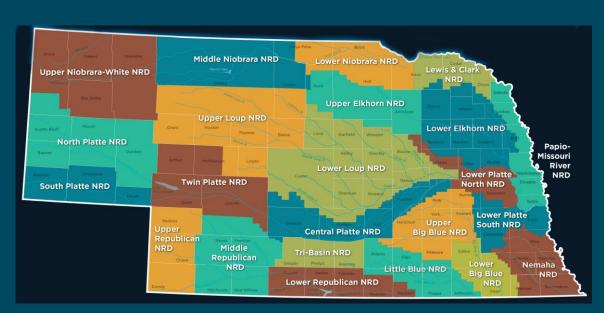


### Keys to Success – Boundaries – Resource Area

46-715(2)(b) a map clearly delineating the geographic area subject to the integrated management plan



Surface Water Administrative Areas



**Natural Resources Districts** 

#### Keys To Success – Boundaries – Authorized Users

- ➤ Certification of Use
  - Surface Water Permits

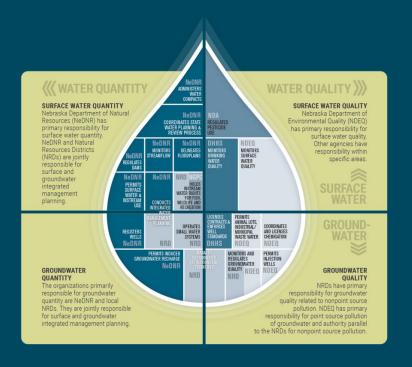
Basin	SW Irrigation Permits	Irrigated Acres	Other Permits	Other Use Majority
Republican FA	429	107,900	215	storage
Upper Niobrara FA	454	58,500	176	storage
Upper Platte OA	464	434,000	185	storage

#### Certified Groundwater Acres

Basin	Total Irrigation Wells	Irrigated Acres	Other Wells	Other Use Majority
Republican FA	9,800	1,021,500	5,500	Domestic, monitoring, livestock
Upper Niobrara FA	1,500	179,400	6,800	Injection, monitoring, recovery, livestock
Upper Platte OA	11,500	1,068,300	13,000	Domestic, monitoring, livestock

## Keys to Success – Decentralized, Local Needs and Conditions

46-715(2): IMPs must contain one surface water control and one groundwater control



Required plans in water-challenged areas 
directs efforts where its most needed

NeDNR can designate areas fully
appropriated through its "Annual
Evaluation of Availability of Hydrologically
Connected Water Supplies"

Voluntary plans in other areas → proactive water management

Areas that have not designated fully or overappropriated are participating in voluntary IMPs

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### Keys to Success – Nested Tiers

- IMPs must keep the State in compliance with Interstate Agreements, Compacts, Decrees (46-715(4)(b))
- Basin-wide Plans: Joint development, adoption and implementation – multiple NRDs and NeDNR
- ➤ IMPs: Joint development Plans require joint development, adoption and implementation between state-level surface water managers (NeDNR) and one local groundwater manager (NRD)



### Keys to Success – Dispute Resolution

Dispute resolution procedures – Basin-Wide Plans

- ▶ Upper Platte Basin
  - Any water user can initiate
  - Investigate hydrologic impact
  - Basin-wide issue:
    - Conduct an investigation
    - Revise plan
  - OPortion of the basin:
    - Work with the affected users
    - Develop solutions

- ▶ Republican Basin
  - Any water user can initiate
  - Evaluate conflict and potential solutions
    - Weigh hydrologic, economic, and environmental impacts
  - Address conflicts
  - Modify plan



## Keys to Success – Funding Opportunities

- Required Areas Nebraska's Water Resources Cash Fund
  - Fully and overappropriated areas
  - For projects to:
    - Reduce consumptive use
    - Enhance streamflow
    - Enhance groundwater recharge
- Voluntary Areas Nebraska's Water Sustainability Fund
  - Eligible to NRDs with IMPs
    - Created strong incentive for voluntary IMPs

- ➤ Local Funding Groundwater Management and Protection Act
  - NRDs can:
    - Levy taxes
    - Issue bonds or collect occupation tax (if they have an IMP)
  - Data collection and analysis tools
  - Partner with NRDs for plan development and implementation



### Keys to Success – Monitoring and Process

➤46-715(2)(e) a plan to gather and evaluate data, information, and methodologies [to implement, increase understanding] and test the validity of the conclusions and information [of the plan]





### Keys to Success – Stakeholders

46-715(5)(b) & 46-755(5)(c) [IMP shall be developed after consultation and collaboration with stakeholders]. If agreement is reached by all parties..., the [NeDNR and NRDs] shall adopt the [plan]. & 46-717(2) [NeDNR and NRDs] shall consult with [stakeholders].

- Component of IMP and basin-wide plans
- Stakeholders help formulate, evaluate and recommend goals, objectives, and action items
- ➤ Stakeholders provide local insight, local concerns, and opportunities



### Keys to Success – Stakeholders

## Statute specifies key interest groups as stakeholders:

- ➤ Irrigation districts
- Reclamation districts
- ➤ Public power districts
- Mutual irrigation or canal companies
- Municipalities

## NeDNR and NRDs can also choose to include others:

- **≻**NGOs
- ➤Other water users
- Groundwater users
- Range livestock owners
- ➤ NE Game and Parks



### Keys to Success – Stakeholders

Stakeholders have improved relations among water users through effectively management communication

#### Prior to IWRM statutes:

 Conflicts between surface water and ground water users did not have a clear legislative method for resolution and therefore lawsuits were the only option

#### After IWRM statutes:

Stakeholder processes in plan development, ongoing monitoring, reporting, and annual meeting processes contained within the IMPs allow for more accessible and lower cost dispute resolution. Stakeholders work together, learn, and help shape water plans to reduce or eliminate conflict over time
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### Concluding Thoughts

- ➤ Challenge: separate regulatory systems for surface and groundwater
- ▶ Legislative Toolbox
  - Boundaries
  - Local Needs and Conditions
  - Nested Tiers
  - Dispute Resolution

- Funding
- Monitoring
- Stakeholder Participation

➤ Trust and Communication — be impeccable with your word



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### **THANK YOU**

Jennifer J. Schellpeper Water Planning Division Manager jennifer.schellpeper@nebraska.gov

